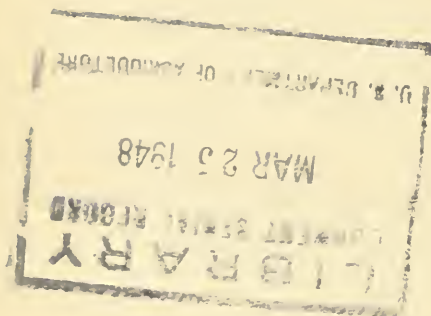


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I N S E C T P E S T S U R V E Y

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* ESTIMATES OF DAMAGE TO CORN BY THE EUROPEAN CORN BORER
IN THE UNITED STATES IN 1947

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It is estimated that the European corn borer (Pyrausta nubilalis (Hbn.)) caused a loss of \$96,770,791 in the United States in 1947. The loss occurred in a corn crop valued at about \$3,313,000,000. Of the total loss, \$3,238,495 was in sweet corn and \$93,532,296 in corn grown for grain.

In 1947 the Bureau of Entomology and Plant Quarantine and various State agencies cooperated in determining the abundance of the corn borer in 532 counties in 22 States. The data accumulated were utilized to estimate the loss caused by the corn borer in 806 counties to which the survey data may be applied. An additional 239 counties are known to be infested. In most of these counties the loss is negligible, or insufficient data are available for a reasonably accurate estimate to be made for them. The established indices of loss of 3, 5, and 8 percent per borer per plant in corn grown for grain, sweet corn for canning, and in market sweet corn were utilized in computing losses. In table 1 the losses on sweet corn grown for canning and for market are combined. Crop production and values were obtained by utilizing the latest statistics available, or the 1945 census figures, and prices reported by the Bureau of Agricultural Economics and various public markets. Prices for corn were those reported as of December 15, 1947, in Agricultural Prices, published by the Bureau of Agricultural Economics.

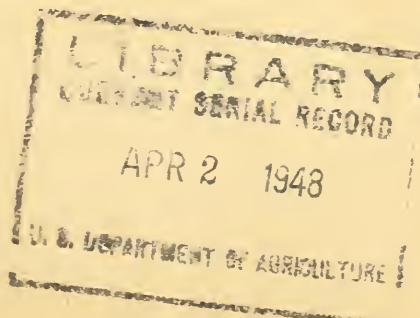


Table 1.--Estimates of damage by the European corn borer to corn harvested for grain and to sweet corn in the United States in 1947

State	Counties		Corn harvested for grain				Sweet corn		Total estimated loss
	Known to be infested	Included in estimate	Estimated corn production	Estimated value of crop	Estimated loss of crop value	Estimated value of crop	Estimated loss of crop value		
								Number	
Connecticut	8	8	347,779	973,781	6,265	1,374,480	24,589	30,854	
Delaware	3	3	3,520,994	7,605,347	205,149	695,438	35,925	241,074	
Illinois	91	82	320,468,676	785,148,256	31,172,635	6,204,219	567,355	31,739,990	
Indiana	91	92	190,478,400	440,005,104	7,244,658	4,835,434	159,874	7,404,532	
Iowa	91	99	308,587,924	783,813,327	29,169,648	1,552,465	115,713	29,285,361	
Kansas	11	0	-	-	-	-	-	-	
Kentucky	73	15	9,258,746	20,091,479	453,047	312,616	46,791	493,838	
Maine	15	12	69,638	194,986	5,112	1,572,324	103,931	103,043	
Maryland	21	22	15,904,495	34,671,799	1,717,988	3,698,604	425,236	2,143,224	
Massachusetts	14	14	210,288	588,806	2,837	1,818,306	28,269	31,106	
Michigan	49	34	28,371,525	69,793,951	1,205,240	1,503,144	77,696	1,282,936	
Minnesota	71	55	178,869,983	411,400,961	13,684,929	2,978,122	247,907	13,932,836	
Missouri	40	40	70,111,266	175,979,278	407,007	330,026	3,500	410,507	
Nebraska	26	0	-	-	-	-	-	-	
New Hampshire	9	9	128,805	360,654	6,818	453,200	14,180	20,998	
New Jersey	21	21	7,423,340	18,929,517	241,864	2,710,800	124,534	366,398	
New York	60	58	4,865,106	11,968,161	169,226	7,040,411	535,156	704,382	
North Carolina	15	13	1,244,886	2,614,261	25,108	84,672	1,650	26,758	
North Dakota	3	0	-	-	-	-	-	-	
Ohio	87	87	138,379,020	318,271,746	3,001,040	2,530,224	113,456	3,114,496	
Pennsylvania	67	67	37,578,593	87,558,122	2,109,131	7,046,984	445,199	2,554,330	
Rhode Island	5	5	37,064	103,779	2,393	320,896	26,739	29,132	
South Dakota	3	0	-	-	-	-	-	-	
Tennessee	4	0	-	-	-	-	-	-	
Vermont	14	11	136,013	380,836	7,255	152,584	6,100	13,355	
Virginia	49	13	7,665,401	17,093,844	722,713	343,778	39,856	762,569	
Wisconsin	71	56	55,845,238	126,210,238	1,972,233	3,045,740	94,839	2,067,072	
West Virginia	14	0	-	-	-	-	-	-	
Total	1045	806	1,379,503,180	3,313,758,233	93,532,296	50,604,467	3,238,495	96,770,791	